

TRANSLATION OF PRIORITY DOCUMENT OF CN02145253.9

SEQUENCE LISTING

<110> SHANGHAI INSTITUTES FOR BIOLOGICAL SCIENCES, CAS

<120> METHOD OF DIAGNOSING AND TREATING BALDNESS USING HUMAN AND MOUSE RHOR GENE AND CODED PRODUCT THEREOF

<130> 026816

<160> 14

<170> PatentIn version 3.1

<210> 1

<211> 2484

<212> DNA

<213> Mus musculus

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<221> CDS

<222> (1)..(2481)

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agc cgc ctg cag agc cgg aag cca ccc aac ctc tcc atc acc atc ccg	96
Ser Arg Leu Gln Ser Arg Lys Pro Pro Asn Leu Ser Ile Thr Ile Pro	
20 25 30	
cca cca gag agc cag gcc ccc ggc gag cag gat agc atg ctt cct gag	144
Pro Pro Glu Ser Gln Ala Pro Gly Glu Gln Asp Ser Met Leu Pro Glu	
35 40 45	
agg cgc aag aac cca gcc tac ctg aag agt gtc agc cta cag gag ccc	192
Arg Arg Lys Asn Pro Ala Tyr Leu Lys Ser Val Ser Leu Gln Glu Pro	
50 55 60	
cgg gga cga tgg cag gag ggc gca gag aag cgc ccc ggc ttc cgc cgc	240
Arg Gly Arg Trp Gln Glu Gly Ala Glu Lys Arg Pro Gly Phe Arg Arg	
65 70 75 80	
cag gcc tcc ctg tcc cag agc atc cgc aag agc aca gcc cag tgg ttt	288
Gln Ala Ser Leu Ser Gln Ser Ile Arg Lys Ser Thr Ala Gln Trp Phe	
85 90 95	
ggg gtc agc ggc gac tgg gag ggc aag cga caa aac tgg cat cgt cgc	336
Gly Val Ser Gly Asp Trp Glu Gly Lys Arg Gln Asn Trp His Arg Arg	
100 105 110	
agc ctg cac cac tgc agc gtg cac tat ggc cgc ctc aag gcc tcg tgc	384
Ser Leu His His Cys Ser Val His Tyr Gly Arg Leu Lys Ala Ser Cys	
115 120 125	
cag aga gaa ctg gag ctg ccc agc cag gag gtg cca tcc ttc cag ggc	432
Gln Arg Glu Leu Glu Leu Pro Ser Gln Glu Val Pro Ser Phe Gln Gly	
130 135 140	
act gag tct cca aaa ccg tgc aag atg ccc aag att gtg gat cca ctg	480
Thr Glu Ser Pro Lys Pro Cys Lys Met Pro Lys Ile Val Asp Pro Leu	
145 150 155 160	
gct cgg ggt agg gcc ttc cgc cat cca gat gag gtg gac cgg cct cac	528
Ala Arg Gly Arg Ala Phe Arg His Pro Asp Glu Val Asp Arg Pro His	
165 170 175	
gct gcc cac cca cct ctg act cca ggg gtc ctg tct ctc aca tcc ttc	576
Ala Ala His Pro Pro Leu Thr Pro Gly Val Leu Ser Leu Thr Ser Phe	

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acc agt gtc	180	acc agt gtc	185	acc agt gtc	190	624
Thr Ser Val Arg Ser Gly Tyr Ser His Leu Pro Arg Arg Lys Arg Ile						
195	200	205				
tct gtt gcc cat atg agc ttt cag gca gcc gcc gcc ctc ctc aag ggg						672
Ser Val Ala His Met Ser Phe Gln Ala Ala Ala Ala Leu Leu Lys Gly						
210	215	220				
cgt tcc gtg cta gat gcg act ggg cag cgg tgc cgg cat gtc aaa cgc						720
Arg Ser Val Leu Asp Ala Thr Gly Gln Arg Cys Arg His Val Lys Arg						
225	230	235			240	
agc ttc gct tac ccc agc ttc ctg gag gag gat gct gtc gat gga gct						768
Ser Phe Ala Tyr Pro Ser Phe Leu Glu Glu Asp Ala Val Asp Gly Ala						
245	250	255				
gac acc ttc gac tcc tcc ttt ttt agt aag gaa gaa atg agc tcc atg						816
Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met						
260	265	270				
cct gac gat gtc ttt gag tcc ccc cca ctc tct gcc agc tac ttc cga						864
Pro Asp Asp Val Phe Glu Ser Pro Pro Leu Ser Ala Ser Tyr Phe Arg						
275	280	285				
ggg gtc cca cac tct gcc tcc ccg gtc tcc ccg gat gga gtg cac atc						912
Gly Val Pro His Ser Ala Ser Pro Val Ser Pro Asp Gly Val His Ile						
290	295	300				
ccg cta aaa gaa tac agc ggt ggc cga gcc ctg ggt ccc ggg acc cag						960
Pro Leu Lys Glu Tyr Ser Gly Gly Arg Ala Leu Gly Pro Gly Thr Gln						
305	310	315			320	
cgt ggc aaa cgc att gcc tcc aaa gta aag cac ttt gca ttt gac cgg						1008
Arg Gly Lys Arg Ile Ala Ser Lys Val Lys His Phe Ala Phe Asp Arg						
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Lys Lys Arg His Tyr Gly Leu Gly Val Val Gly Asn Trp Leu Asn Arg						
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Ser Tyr Arg Arg Ser Ile Ser Thr Val Gln Arg Gln Leu Glu Ser						
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Phe Asp Ser His Arg Pro Tyr Phe Thr Tyr Trp Leu Thr Phe Val His						
370	375	380				
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Ile Ile Ile Thr Leu Leu Val Ile Cys Thr Tyr Gly Ile Ala Pro Val						
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ggc ttt gcc cag cac gtt acc acc cag ctg gtg ctg aag aac aga ggc						1248
Gly Phe Ala Gln His Val Thr Thr Gln Leu Val Leu Lys Asn Arg Gly						
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gtg tat gag agc gtg aag tac atc cag gag aac ttc tgg att ggc						1296
Val Tyr Glu Ser Val Lys Tyr Ile Gln Gln Glu Asn Phe Trp Ile Gly						
420	425	430				
ccc agc tcg att gac ctc att cac ctg gga gca aag ttc tcg ccc tgc						1344
Pro Ser Ser Ile Asp Leu Ile His Leu Gly Ala Lys Phe Ser Pro Cys						
435	440	445				
atc cgg aag gac cag caa att gag cag ctg gta cgg agg gag cgc gac						1392
Ile Arg Lys Asp Gln Gln Ile Glu Gln Leu Val Arg Arg Glu Arg Asp						
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att gag cgc acc tct ggc tgc tgt gtc cag aat gac cgc tcg ggc tgc						1440
Ile Glu Arg Thr Ser Gly Cys Cys Val Gln Asn Asp Arg Ser Gly Cys						
465	470	475			480	
atc cag acc ctg aag gac tgc tcg gag act tta gcc acg ttc gta						1488
Ile Gln Thr Leu Lys Lys Asp Cys Ser Glu Thr Leu Ala Thr Phe Val						
485	490	495				
aag tgg cag aat gat act ggg ccc tca gac aag tct gac ctg agc cag						1536

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Lys	Trp	Gln	Asn	Asp	Thr	Gly	Pro	Ser	Asp	Lys	Ser	Asp	Leu	Ser	Gln	
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Lys	Gln	Pro	Ser	Ala	Val	Val	Cys	His	Gln	Asp	Pro	Arg	Thr	Cys	Glu	
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Glu	Pro	Ala	Ser	Ser	Gly	Ala	His	Ile	Trp	Pro	Asp	Asp	Ile	Thr	Lys	
	530					535					540					
tgg	ccg	atc	tgc	aca	gag	cag	gct	cag	agc	aac	cac	acg	ggc	ttg	ttg	1680
Trp	Pro	Ile	Cys	Thr	Glu	Gln	Ala	Gln	Ser	Asn	His	Thr	Gly	Leu	Leu	
545					550					555				560		
cac	ata	gac	tgt	aag	atc	aaa	ggc	cgc	ccc	tgc	tgc	atc	ggc	acc	aag	1728
His	Ile	Asp	Cys	Lys	Ile	Lys	Gly	Arg	Pro	Cys	Cys	Ile	Gly	Thr	Lys	
			565						570				575			
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Gly	Ser	Cys	Glu	Ile	Thr	Thr	Arg	Glu	Tyr	Cys	Glu	Phe	Met	His	Gly	
			580					585					590			
tat	ttc	cat	gaa	gac	gcg	acg	ctg	tgt	tcc	cag	gtg	cac	tgt	tta	gac	1824
Tyr	Phe	His	Glu	Asp	Ala	Thr	Leu	Cys	Ser	Gln	Val	His	Cys	Leu	Asp	
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Lys	Val	Cys	Gly	Leu	Leu	Pro	Phe	Leu	Asn	Pro	Glu	Val	Pro	Asp	Gln	
	610					615					620					
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Phe	Tyr	Arg	Ile	Trp	Leu	Ser	Leu	Phe	Leu	His	Ala	Gly	Ile	Val	His	
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Cys	Leu	Val	Ser	Val	Val	Phe	Gln	Met	Thr	Ile	Leu	Arg	Asp	Leu	Glu	
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Lys	Leu	Ala	Gly	Trp	His	Arg	Ile	Ser	Ile	Ile	Phe	Ile	Leu	Ser	Gly	
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gtg	ggc	cca	gcc	ggg	tcg	cag	ttc	ggc	ctc	ctc	gcc	tgc	ctc	ttc	gtg	2112
Val	Gly	Pro	Ala	Gly	Ser	Gln	Phe	Gly	Leu	Leu	Ala	Cys	Leu	Phe	Val	
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gag	ctg	ttc	cag	agc	tgg	cag	ctg	ttg	gag	cgg	ccg	tgg	aag	gcc	ttc	2160
Glu	Leu	Phe	Gln	Ser	Trp	Gln	Leu	Leu	Glu	Arg	Pro	Trp	Lys	Ala	Phe	
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ttc	aac	ctg	tcg	gcc	att	gtg	ctt	ttc	ctc	ttc	atc	tgt	ggc	ctc	ctg	2208
Phe	Asn	Leu	Ser	Ala	Ile	Val	Leu	Phe	Leu	Phe	Ile	Cys	Gly	Leu	Leu	
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ccc	tgg	ata	gac	aac	atc	gcc	cac	atc	ttc	ggg	ttc	ctc	agc	ggc	atg	2256
Pro	Trp	Ile	Asp	Asn	Ile	Ala	His	Ile	Phe	Gly	Phe	Leu	Ser	Gly	Met	
			740					745					750			
ctt	ctg	gcc	ttc	gcc	ttc	ctg	cct	tac	att	acc	ttc	ggc	acc	agc	gac	2304
Leu	Leu	Ala	Phe	Ala	Phe	Leu	Pro	Tyr	Ile	Thr	Phe	Gly	Thr	Ser	Asp	
		755						760				765				
aag	tac	cgc	aag	cga	gcc	ctc	atc	ctc	gtg	tcg	ctg	ctg	gtc	ttt	gct	2352
Lys	Tyr	Arg	Lys	Arg	Ala	Leu	Ile	Leu	Val	Ser	Leu	Leu	Val	Phe	Ala	
	770					775					780					
ggg	ctc	ttt	gct	tcc	ctg	gtg	ctg	tgg	ctg	tac	atc	tac	ccc	atc	aac	2400
Gly	Leu	Phe	Ala	Ser	Leu	Val	Leu	Trp	Leu	Tyr	Ile	Tyr	Pro	Ile	Asn	
785					790					795				800		
tgg	ccc	tgg	atc	gag	tac	ctc	acc	tgc	ttt	ccc	ttc	acc	agc	cgc	ttc	2448
Trp	Pro	Trp	Ile	Glu	Tyr	Leu	Thr	Cys	Phe	Pro	Phe	Thr	Ser	Arg	Phe	
			805						810					815		

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2484

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 35 40 45
 Arg Arg Lys Asn Pro Ala Tyr Leu Lys Ser Val Ser Leu Gln Glu Pro
 50 55 60
 Arg Gly Arg Trp Gln Glu Gly Ala Glu Lys Arg Pro Gly Phe Arg Arg
 65 70 75 80
 Gln Ala Ser Leu Ser Gln Ser Ile Arg Lys Ser Thr Ala Gln Trp Phe
 85 90 95
 Gly Val Ser Gly Asp Trp Glu Gly Lys Arg Gln Asn Trp His Arg Arg
 100 105 110
 Ser Leu His His Cys Ser Val His Tyr Gly Arg Leu Lys Ala Ser Cys
 115 120 125
 Gln Arg Glu Leu Glu Leu Pro Ser Gln Glu Val Pro Ser Phe Gln Gly
 130 135 140
 Thr Glu Ser Pro Lys Pro Cys Lys Met Pro Lys Ile Val Asp Pro Leu
 145 150 155 160
 Ala Arg Gly Arg Ala Phe Arg His Pro Asp Glu Val Asp Arg Pro His
 165 170 175
 Ala Ala His Pro Pro Leu Thr Pro Gly Val Leu Ser Leu Thr Ser Phe
 180 185 190
 Thr Ser Val Arg Ser Gly Tyr Ser His Leu Pro Arg Arg Lys Arg Ile
 195 200 205
 Ser Val Ala His Met Ser Phe Gln Ala Ala Ala Ala Leu Leu Lys Gly
 210 215 220
 Arg Ser Val Leu Asp Ala Thr Gly Gln Arg Cys Arg His Val Lys Arg
 225 230 235 240
 Ser Phe Ala Tyr Pro Ser Phe Leu Glu Glu Asp Ala Val Asp Gly Ala
 245 250 255
 Asp Thr Phe Asp Ser Ser Phe Phe Ser Lys Glu Glu Met Ser Ser Met
 260 265 270
 Pro Asp Asp Val Phe Glu Ser Pro Pro Leu Ser Ala Ser Tyr Phe Arg
 275 280 285
 Gly Val Pro His Ser Ala Ser Pro Val Ser Pro Asp Gly Val His Ile
 290 295 300
 Pro Leu Lys Glu Tyr Ser Gly Gly Arg Ala Leu Gly Pro Gly Thr Gln
 305 310 315 320
 Arg Gly Lys Arg Ile Ala Ser Lys Val Lys His Phe Ala Phe Asp Arg
 325 330 335
 Lys Lys Arg His Tyr Gly Leu Gly Val Val Gly Asn Trp Leu Asn Arg
 340 345 350
 Ser Tyr Arg Arg Ser Ile Ser Ser Thr Val Gln Arg Gln Leu Glu Ser
 355 360 365
 Phe Asp Ser His Arg Pro Tyr Phe Thr Tyr Trp Leu Thr Phe Val His
 370 375 380

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Val	Tyr	Glu	Ser	Val	Lys	Tyr	Ile	Gln	Gln	Glu	Asn	Phe	Trp	Ile	Gly
				420				425					430		
Pro	Ser	Ser	Ile	Asp	Leu	Ile	His	Leu	Gly	Ala	Lys	Phe	Ser	Pro	Cys
				435			440					445			
Ile	Arg	Lys	Asp	Gln	Gln	Ile	Glu	Gln	Leu	Val	Arg	Arg	Glu	Arg	Asp
	450				455						460				
Ile	Glu	Arg	Thr	Ser	Gly	Cys	Cys	Val	Gln	Asn	Asp	Arg	Ser	Gly	Cys
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Ile	Gln	Thr	Leu	Lys	Lys	Asp	Cys	Ser	Glu	Thr	Leu	Ala	Thr	Phe	Val
				485					490					495	
Lys	Trp	Gln	Asn	Asp	Thr	Gly	Pro	Ser	Asp	Lys	Ser	Asp	Leu	Ser	Gln
			500					505					510		
Lys	Gln	Pro	Ser	Ala	Val	Val	Cys	His	Gln	Asp	Pro	Arg	Thr	Cys	Glu
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Glu	Pro	Ala	Ser	Ser	Gly	Ala	His	Ile	Trp	Pro	Asp	Asp	Ile	Thr	Lys
	530					535					540				
Trp	Pro	Ile	Cys	Thr	Glu	Gln	Ala	Gln	Ser	Asn	His	Thr	Gly	Leu	Leu
545					550					555					560
His	Ile	Asp	Cys	Lys	Ile	Lys	Gly	Arg	Pro	Cys	Cys	Ile	Gly	Thr	Lys
				565					570					575	
Gly	Ser	Cys	Glu	Ile	Thr	Thr	Arg	Glu	Tyr	Cys	Glu	Phe	Met	His	Gly
			580					585					590		
Tyr	Phe	His	Glu	Asp	Ala	Thr	Leu	Cys	Ser	Gln	Val	His	Cys	Leu	Asp
			595				600					605			
Lys	Val	Cys	Gly	Leu	Leu	Pro	Phe	Leu	Asn	Pro	Glu	Val	Pro	Asp	Gln
	610					615					620				
Phe	Tyr	Arg	Ile	Trp	Leu	Ser	Leu	Phe	Leu	His	Ala	Gly	Ile	Val	His
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Cys	Leu	Val	Ser	Val	Val	Phe	Gln	Met	Thr	Ile	Leu	Arg	Asp	Leu	Glu
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Lys	Leu	Ala	Gly	Trp	His	Arg	Ile	Ser	Ile	Ile	Phe	Ile	Leu	Ser	Gly
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Ile	Thr	Gly	Asn	Leu	Ala	Ser	Ala	Ile	Phe	Leu	Pro	Tyr	Arg	Ala	Glu
			675				680					685			
Val	Gly	Pro	Ala	Gly	Ser	Gln	Phe	Gly	Leu	Leu	Ala	Cys	Leu	Phe	Val
	690					695					700				
Glu	Leu	Phe	Gln	Ser	Trp	Gln	Leu	Leu	Glu	Arg	Pro	Trp	Lys	Ala	Phe
705					710					715					720
Phe	Asn	Leu	Ser	Ala	Ile	Val	Leu	Phe	Leu	Phe	Ile	Cys	Gly	Leu	Leu
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Pro	Trp	Ile	Asp	Asn	Ile	Ala	His	Ile	Phe	Gly	Phe	Leu	Ser	Gly	Met
			740					745					750		
Leu	Leu	Ala	Phe	Ala	Phe	Leu	Pro	Tyr	Ile	Thr	Phe	Gly	Thr	Ser	Asp
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Lys	Tyr	Arg	Lys	Arg	Ala	Leu	Ile	Leu	Val	Ser	Leu	Leu	Val	Phe	Ala
	770					775					780				
Gly	Leu	Phe	Ala	Ser	Leu	Val	Leu	Trp	Leu	Tyr	Ile	Tyr	Pro	Ile	Asn
785					790					795					800
Trp	Pro	Trp	Ile	Glu	Tyr	Leu	Thr	Cys	Phe	Pro	Phe	Thr	Ser	Arg	Phe
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cccaccacc tctgactcca ggggtcctgt ctctcacatc cttaccatg tccgctctgg 420
ctactcccat ctgccccgcc gcaagaggat atctgttgcc catatgagct ttcaggcagc 480
cgccgccctc ctcaaggggc gttccgtgct agatgcgact gggcagcggg gccggcatgt 540
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